

Title (en)
MAGNETIC BEARING

Title (de)
MAGNETLAGER

Title (fr)
PALIER MAGNÉTIQUE

Publication
EP 3168487 A4 20180404 (EN)

Application
EP 15837568 A 20150831

Priority
• JP 2014176920 A 20140901
• JP 2015004412 W 20150831

Abstract (en)
[origin: EP3168487A1] A magnetic bearing includes a controller (30) dividing a control region in two regions based on an individual difference between electromagnets (27) regarding a correlation between two or more parameters among a current (i) flowing through the electromagnets (27), a number of flux linkages (\dot{E}), a gap width (G), magnetic energy (Wm), magnetic co-energy (Wm'), electromagnetic force, and a parameter derived using these parameters. In a first control region (A1) with a small individual difference, the controller (30) uses a control model common for all of the electromagnets (27). In a second control region (A2) with a large individual difference, the controller (30) performs position control of a drive shaft (13) using control models provided one for each of the electromagnets (27) or one for each of a predetermined number of electromagnet groups.

IPC 8 full level
F16C 32/04 (2006.01)

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Citation (search report)
• No further relevant documents disclosed
• See references of WO 2016035318A1

Cited by
EP3780380A4; US11005349B2; WO2022043602A1

Designated contracting state (EPC)
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